

LESSON 6.3

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**LESSON 6.3 Practice C** continued For use with pages 369–374

Translate the verbal phrase into an inequality. Then solve the inequality and graph your solution.

**27.** The sum of 4x and 2x is less than the difference of 5x and 13.

**28.** The product of 3 and the sum of 2x and 1 is greater than or equal to the product of -2 and the sum of 3 and x.

**29.** The product of 2 and the difference of 5 and x is less than or equal to the sum of 5x and 3x.

**30.** The difference of 32 and 4x is less than or equal to the product of -4 and the difference of -8 and x.

**31.** The product of 3 and the difference of 2 and 4x is less than or equal to the sum of 5x and 7x.

- **32.** Daffodils The charity that you volunteer for is selling potted daffodils in the spring to raise money. The charity has spent \$250 on supplies and plans to sell them for \$5 each.
  - **a.** Write an inequality that gives the possible numbers *d* of daffodils the charity needs to sell in order for the profit to be positive.
  - **b.** What are the possible numbers of daffodils the charity needs to sell in order for the profit to be positive?
  - c. If the charity bought 55 daffodil bulbs, are they able to make a profit? *Explain*.
- **33.** Computer You are planning on a buying a computer, but you don't want to spend over \$1000 on the computer. You have a coupon for \$50 off the purchase of any item at the store you want to buy the computer from.
  - **a.** If the sales tax is 6%, write an expression for the amount of tax on the price *p* of a computer in dollars after the coupon is applied.
  - **b.** Write and solve an inequality that gives the possible amounts you are willing to pay for the computer.